

REMARKS/ARGUMENTS

The Examiner is thanked for the careful review of this application. Applicants have thoroughly reviewed the outstanding Office Action including the references cited therein. The following remarks are believed to be fully responsive to the Office Action
5 and to render all claims at issue patentably distinguishable over cited reference.

Claim Rejection – 35 U.S.C. Section 102

Rejection of claims 1-15 based on 35 USC 102 (b)

Claims 1-15 are rejected under 35 U.S.C.102 (b) as being anticipated by
10 Cameron (US patent 6,094,026). As will be fully described in the following, the cited reference does not anticipate the claimed invention. Accordingly, the rejections are respectfully traversed for at least the reasons set forth below.

Independent claim 1 is directed to a method for protecting an optical pickup head from temperature variation comprising: detecting a temperature of the optical pickup head
15 *by using a temperature detector embedded in the optical pickup head* when a spindle motor rotates at a first speed; and controlling the spindle motor to rotate at a second speed *to decrease a control current flowing to an actuator of the optical pickup head* if the temperature of the optical pickup is over a first predetermined temperature; wherein the second speed is slower than the first speed. As known in the art, when the optical drive
20 is operating, the spindle motor and the clamped disc are rotating and the rotation causing air flowing in the optical drive. That means the temperatures of the pickup head and the spindle motor are quite different when the optical drive is rotating.

The cited reference of US 6,094,026 discloses a method of controlling rotating speed according to a detected temperature of a motor. The purpose of the cited
25 reference is to detect the temperature of the substrate and slow down the rotating speed of a motor for preventing an over temperature condition to protect the motor. Although the motor could be used in an optical drive, the temperature detected by a

detector embedded in the substrate for detecting the temperature of the rotating motor is different from the temperature detected by a detector embedded in the pickup head. Furthermore, slowing down the rotating speed is to preventing a large control current flowing to the actuator of the pickup head causing an occurrence of overheating.

5 According to the above description, applicants amend the independent claim 1, 6, and 11 and dependent claims 2, 7, and 12 to distinguish from the cited reference.

For at least these reasons, the amended independent claim 1, 6, and 11 patently defines over the cited art and should be allowed. Dependent claims 2-5, 7-10, and 12-15 each depend from independent claim 1, 6 or 11 also define over the cited art for at
10 least the same reasons.

CONCLUSION

In light of the above amendments and remarks, Applicants respectfully submit that all claims 1-8 as currently presented are in condition for allowance and hereby requests
15 reconsideration and allowance of these claims.

Sincerely yours,



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